4594ND

1,4” Coaxial Neodymium Compression Driver

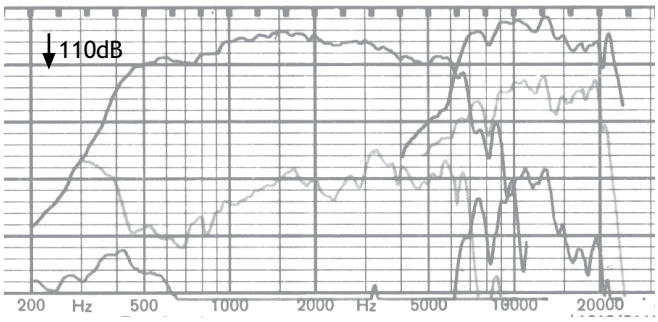
Features:

- Extended bandwidth (300 - 22000Hz)
- Neodymium magnet assembly
- With two subsystems in one, each driver covers a smaller frequency range for increased power handling, high dynamic and extremely low distortion
- Excellent phase coherence
- Perfect time alignment without problems of multi-source interference
- Ultra lightweight and small size

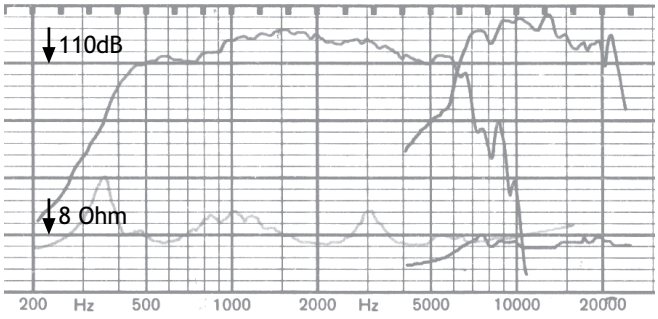
In a conventional full range compression driver the phase plug must be located extremely close to the diaphragm, excursion of the diaphragm is limited and middle frequency performance is compromised. A typical large diaphragm dome compression driver has a limited high frequency response. Over 8 kHz the dome diaphragm breaks up causing resonance and harsh, metallic sound. The patented design of the BMS 4594 is a result of extensive dedicated research and development providing dramatic improvement in dynamic response, clarity and transparency.

The BMS annular midrange diaphragm covers the frequency range between 300 and 7.000 Hz with a smooth, linear response. The large diaphragm excursion of max. +/-0,8 mm results in high output and increased power handling up to 1.300W peak.

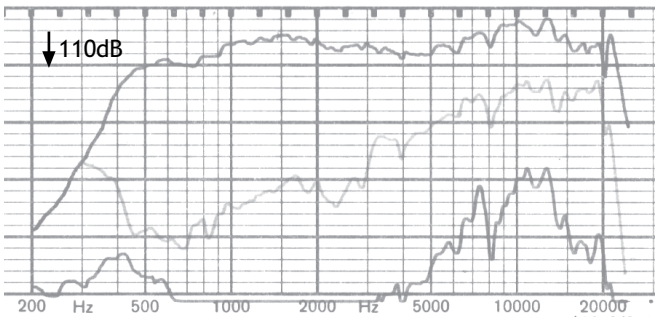
BMS 4594-8, 60° x 40° Horn, 2nd + 3rd harmonic distortion raised 10dB., SPL 1W / 1m



BMS 4594-8, 60° x 40° Horn, SPL 1W / 1m



BMS 4594-8, incl. passive crossover, 2nd + 3rd harmonic distortion raised 10dB., SPL 1W / 1m



SPECIFICATIONS

Throat diameter	**1.4" (36 mm)**
Nominal impedance	**8 or 16 Ohm**
Power capacity	
Middle range (AES)	**150 W RMS above 400 Hz**
peak	**1000 W peak above 500 Hz**
High range (AES)	**80 W**
peak	**320 W**
Sensitivity 1W/1m	**118 dB on 40° x 20° Horn**
Frequency range (Hz)	**300 - 22000 Hz**
Recommended crossover	**300 Hz**
Middle frequenzy range	**300 - 7000 Hz**
High frequenzy range	**6000 - 22000 Hz**
Middle/High crossover	**6300Hz**
Voice coil high-range	**1.75” (44.4 mm)**
Voice coil mid-range	**3.5” (90 mm)**
Magnet material	**Neodymium**
Flux density (Tesla)	**2**
Efficency	**35% (300 - 5000 Hz)**
Voice coil material	**Copper Clad Aluminium**
	(2Layers in- and outside of the VC)
Voice coil former	**Kapton™**
Diaphragm material	**Polyester**
Mounting information	
Overall Diameter	**132 mm (+/- 3 mm)**
Depth	**94 mm**
Net weight	**2.63 kg**
4x M6 holes, 90° on	**101.6 mm, 4” diameter**